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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/585,713	07/25/2008	Estibaliz Bear Chinea	39090-65	4354
87133 Dickinson Wrig	7590 01/07/201 eht, PLLC	EXAMINER		
1875 Eye Street		MASUR, PAUL H		
Suite 1200 Washington, D	C 20006		ART UNIT	PAPER NUMBER
			2464	
			NOTIFICATION DATE	DELIVERY MODE
			01/07/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

kspivak@dickinsonwright.com awilson@dickinsonwright.com cvphillips@dickinsonwright.com

Office Action Summary	S SET TO EXPIRE 3 MONTH() E OF THIS COMMUNICATION a). In no event, however, may a reply be time apply and will expire SIX (6) MONTHS from use the application to become ABANDONEI	S) OR THIRTY (30) DAYS, I. nely filed the mailing date of this communication. C) (35 U.S.C. § 133).			
The MAILING DATE of this communication appea Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS WHICHEVER IS LONGER, FROM THE MAILING DAT - Extensions of time may be available under the provisions of 37 CFR 1.136(a after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will a Failure to reply within the set or extended period for reply will, by statute, can Any reply received by the Office later than three months after the mailing da	Paul Masur Its on the cover sheet with the country of the cover sheet with the country of the c	2464 orrespondence address S) OR THIRTY (30) DAYS, I. rely filed the mailing date of this communication. D (35 U.S.C. § 133).			
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Status					
3) Since this application is in condition for allowance	ction is non-final. e except for formal matters, pro				
closed in accordance with the practice under Ex µ	parte Quayle, 1935 C.D. 11, 45	03 O.G. 213.			
Disposition of Claims					
4) ☐ Claim(s) 1-23 is/are pending in the application. 4a) Of the above claim(s) 1-9 is/are withdrawn fro 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 10-23 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or e					
Application Papers					
9) ☐ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 14 October 2009 is/are: a Applicant may not request that any objection to the dra Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Exam	wing(s) be held in abeyance. See is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

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DETAILED ACTION

Response to Arguments

- 1. Applicant's arguments, see page 6, filed 08/27/2009, with respect to foreign priority have been fully considered and are persuasive. The requirement of foreign priority documents has been withdrawn.
- 2. Applicant's arguments, see page 6, filed 08/27/2009, with respect to the drawings have been fully considered and are persuasive. The objection of the drawings has been withdrawn.
- 3. Applicant's arguments filed 08/27/2009 have been fully considered but they are not persuasive.
- 4. On page 6 of the remarks, in regard to claims 10-14 and 20-23, the applicant submits that Beshai fails to teach all of the limitations included in the claims.

 Furthermore, the applicant submits that Fig. 26 A and paragraph 0184 of Beshai discloses that the edge node waits for permission from the core node to transfer a data burst.

The examiner respectfully disagrees. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., an immediate transmission of the second burst) are not recited in the rejected claim(s).

Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26

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USPQ2d 1057 (Fed. Cir. 1993). However, the examiner concedes that if this limitation were included in the claims, it would overcome the current ground of rejection.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

- 6. Claims 10-14 and 20-23 are rejected under 35 U.S.C. 102(e) as being anticipated by Beshai et al. (US PG Pub 2008/0165688).
- 7. **As per claim 10**, Beshai et al. teaches a method for transmitting a data burst between a sending network node and a receiving network node over a switching device of a data network, comprising:

receiving information by the sending network node implying a blocking time while transmitting a data burst [Beshai, fig. 26-A, "Send Schedule", The edge determines the blocking time from the schedule that is sent by the core.];

waiting for expiration of the blocking time [Beshai, fig. 26-A, "Delay", paragraph 0184, "an edge node 208 sends a request to a core node 312 for permission to transfer a data burst and waits until the permission is received", The time that the edge waits after receiving the schedule is the blocking time.]; and

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transmitting a subsequent data burst from the sending network node to the receiving network node [Beshai, fig. 26-A, "Transmit Burst"].

- 8. **As per claim 11**, Beshai et al. teaches the method according to claim 10. Beshai et al. also teaches further comprising transmitting a remaining blocking time of an available connection between the sending and receiving nodes to the sending network node [Beshai, fig. 26-A, paragraph 0184, "Each edge node 208 would continually send such requests", More scheduling requests are sent to determine remaining connection time.].
- 9. **As per claim 12,** Beshai et al. teaches the method according to claim 11. Beshai et al. also teaches further comprising transmitting to the sending network node both:

the point in time of the beginning of an available connection or the blocking time until the beginning of an available connection [Beshai, fig. 26-A, paragraph 0184, "A reserved path remains idle until the edge node starts transmitting the burst", The connection remains idle (blocking time) until the sending node sends the burst.], and

the point in time of the termination of the available connection or the duration of the available connection or a length of time until the end of the available connection are transmitted to the sending network node [Beshai, fig. 27, paragraph 0185, "The burstwidth variation, as illustrated by the indicated envelope of burst-width variation with time, reflects time-varying flow-rate allocations", The length of the burst (which is dependent on the connection) is dependent on time.].

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10. **As per claim 13,** Beshai et al. teaches the method according to claim 11. Beshai et al. also teaches wherein the blocking time [Beshai, fig. 26-A, paragraph 0184, "A reserved path remains idle until the edge node starts transmitting the burst", The connection remains idle (blocking time) until the sending node sends the burst.] and the remaining connection time for a connection are transmitted to the sending network node [Beshai, fig. 27, paragraph 0185, "The burst-width variation, as illustrated by the indicated envelope of burst-width variation with time, reflects time-varying flow-rate allocations", The length of the burst (which is dependent on the connection) is dependent on time.].

- 11. **As per claim 14,** Beshai et al. teaches the method according to claim 11. Beshai et al. teaches wherein the sending network node sends a reservation request via the switching device to the receiving network node [Beshai, fig. 26-A, "Send Schedule", The edge determines the blocking time from the schedule that is sent by the core (which also function as the receiving device).].
- 12. **As per claim 20**, Beshai et al. teaches the method according to claim 13. Beshai et al. also teaches wherein the data bursts are transmitted over an optical data network [Beshai, paragraph 0009, "A network providing optical burst switching in the core requires flow-rate regulation at the electronic edge nodes to enable contention-free switching at subsequent core nodes"].
- 13. **As per claim 21**, Beshai et al. teaches a method for transmitting a data burst between a sending network node and a receiving network node over a switching device of a data network, comprising:

transmitting to the sending network node information including the point in time of the beginning of an available connection or the blocking time until the beginning of an available connection [Beshai, fig. 26-A, paragraph 0184, "A reserved path remains idle until the edge node starts transmitting the burst", The connection remains idle (blocking time) until the sending node sends the burst.], and

the point in time of the termination of the available connection or the duration of the available connection or a length of time until the end of the available connection [Beshai, fig. 27, paragraph 0185, "The burst-width variation, as illustrated by the indicated envelope of burst-width variation with time, reflects time-varying flow-rate allocations", The length of the burst (which is dependent on the connection) is dependent on time.].

receiving information by the sending network node implying a blocking time while transmitting a data burst [Beshai, fig. 26-A, "Send Schedule", The edge determines the blocking time from the schedule that is sent by the core.];

waiting for expiration of the blocking time [Beshai, fig. 26-A, "Delay", paragraph 0184, "an edge node 208 sends a request to a core node 312 for permission to transfer a data burst and waits until the permission is received", The time that the edge waits after receiving the schedule is the blocking time,];

transmitting a subsequent data burst from the sending network node to the receiving network node [Beshai, fig. 26-A, "Transmit Burst"].

14. **As per claim 22,** Beshai et al. teaches the method according to claim 21. Beshai et al. also teaches wherein the blocking time is the time duration till the next

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permissible data burst transmission [Beshai, fig. 26-A, "Delay", paragraph 0184, "an edge node 208 sends a request to a core node 312 for permission to transfer a data burst and waits until the permission is received", The time that the edge waits after receiving the schedule is the blocking time.].

15. **As per claim 23**, Beshai et al. teaches a method for transmitting a data burst between a sending network node and a receiving network node over a switching device of a data network, comprising:

transmitting to the sending network node information including the point in time of the beginning of an available connection or the blocking time until the beginning of an available connection [Beshai, fig. 26-A, paragraph 0184, "A reserved path remains idle until the edge node starts transmitting the burst", The connection remains idle (blocking time) until the sending node sends the burst.], and

receiving information by the sending network node implying a blocking time while transmitting a data burst [Beshai, fig. 26-A, "Send Schedule", The edge determines the blocking time from the schedule that is sent by the core.];

waiting for expiration of the blocking time [Beshai, fig. 26-A, "Delay", paragraph 0184, "an edge node 208 sends a request to a core node 312 for permission to transfer a data burst and waits until the permission is received", The time that the edge waits after receiving the schedule is the blocking time,];

transmitting a subsequent data burst from the sending network node to the receiving network node [Beshai, fig. 26-A, "Transmit Burst"].

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Claim Rejections - 35 USC § 103

16. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 17. Claims 15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Beshai et al. (US PG Pub 2008/0165688) in view of Oh et al. (US PG Pub 2003/0099243).
- 18. **As per claim 15,** Beshai et al. teaches the method according to claim 14. Beshai et al. does not teach wherein a desired length of time until a subsequent data burst is sent in the reservation request.

However, Oh et al. teaches wherein a desired length of time until a subsequent data burst is sent in the reservation request [Oh, paragraph 0010, "It reserves the bandwidth on each link just for the data burst duration", In the request, the desired burst time is stated.].

Thus it would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the teachings of Oh et al. into Beshai et al., since Beshai et al. suggests sending packet bursts according to a defined protocol, and Oh et al. suggests the beneficial use of a desired length of time between bursts such as to prevent congestion [Oh, paragraph 0010] in the analogous art of optical burst switching.

19. **As per claim 16,** Beshai et al. in view of Oh et al. teaches the method according to claim 15. Beshai et al. also teaches wherein the data burst is transmitted via a

plurality of switching devices [Beshai, fig. 26-A, An optical network comprises multiple switching devices.].

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20. **As per claim 17**, Beshai et al. in view of Oh et al. teaches the method according to claim 15. Beshai et al. does not teach wherein each switching device determines and transmits the longest remaining blocking time to the next switching device or the receiving network node.

However, Oh et al. teaches wherein each switching device determines and transmits the longest remaining blocking time to the next switching device or the receiving network node [Oh, paragraph 0010, "The control packet contains information necessary for routing the data burst through the optical channel, as well as information on the length of the burst and the offset value", Through the duration and offset, a maximum time is determined pass through the network.].

Thus it would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the teachings of Oh et al. into Beshai et al., since Beshai et al. suggests sending packet bursts according to a defined protocol, and Oh et al. suggests the beneficial use of a desired length of time between bursts such as to prevent congestion [Oh, paragraph 0010] in the analogous art of optical burst switching.

- 21. Claims 18 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Beshai et al. (US PG Pub 2008/0165688) in view of Oh et al. (US PG Pub 2003/0099243) and Craddock et al. (US PG Pub 2003/0035433).
- 22. **As per claim 18,** Beshai et al. in view of Oh et al. teaches the method according to claim 15. Beshai et al. does not teach wherein during an acknowledgement signal

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the receiving end node sends the remaining time till an available connection to the sending network node via the switching devices and the switching devices reserve the transmission capacity.

However, Craddock et al. teaches wherein during an acknowledgement signal the receiving end node sends the remaining time till an available connection to the sending network node via the switching devices and the switching devices reserve the transmission capacity [Craddock, paragraph 0083, "End-to-end (EE) contexts maintain end-to-end specific state to keep track of sequence numbers, acknowledgments, and time-out values", End-to-End contexts determine the time remaining and the capacity.].

Thus it would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the teachings of Craddock et al. into Beshai et al., since Beshai et al. suggests sending packet bursts according to a defined protocol, and Craddock et al. suggests the beneficial use of End-to-End contexts such as to track network variables [Craddock, paragraph 0083] in the analogous art of optical networks.

23. **As per claim 19,** Beshai et al. in view of Oh et al. teaches the method according to claim 18. Beshai et al. does not teach wherein the reserved transmission capacity is based on the remaining time information.

However, Craddock et al. teaches wherein the reserved transmission capacity is based on the remaining time information [Craddock, paragraph 0083, "End-to-end (EE) contexts maintain end-to-end specific state to keep track of sequence numbers, acknowledgments, and time-out values", End-to-End contexts determine the time remaining and the capacity.].

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Thus it would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the teachings of Craddock et al. into Beshai et al., since Beshai et al. suggests sending packet bursts according to a defined protocol, and Craddock et al. suggests the beneficial use of End-to-End contexts such as to track network variables [Craddock, paragraph 0083] in the analogous art of optical networks.

Conclusion

24. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

25. The Examiner has cited particular columns and line numbers or paragraphs in the references applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in their entirety as potentially teaching all or

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part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the Examiner.

In the case of amending the claimed invention, the Applicant is respectfully requested to indicate the portion(s) of the specification which dictate(s) the structure relied on for proper interpretation and also to verify and ascertain the metes and bounds of the claimed invention.

- 26. If the Applicant is of the opinion that an interview would help advance prosecution in this case, they are welcome to call the Examiner, Paul Masur, at the number listed below to schedule an interview. The Examiner prefers interview requests be accompanied with a detailed agenda via fax. The Examiner's fax number is (571) 270-8297. The Examiner is willing to consider proposed amendments, clarify rejections, and discuss any other issues that are presented by the Applicant. Please note that the Examiner may not be able to accommodate all requests due to scheduling constraints. It is recommended that interview requests be sent with ample time to schedule an interview.
- 27. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul Masur whose telephone number is (571) 270-7297. The examiner can normally be reached on Monday through Friday from 7:00AM to 4:30PM (Eastern Time).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on (571) 272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ricky Ngo/ /P. M./

Supervisory Patent Examiner, Art Unit 2464 Examiner, Art Unit 2464